

Date: Thursday, 9/20/2007 3:26:24 PM
 User: Kim Johnston

Process Sheet

SPL/T

Customer	CU-DAR001 Dart Helicopters Services			Drawing Name	EXTRUSION "I" BEAM TUBE 4"		
Job Number	34729						
Estimate Number	10154						
P.O. Number	N/A			Part Number	D25001190		
This Issue	9/20/2007	S.O. No.	N/A	Drawing Number	D2500 REV G		
Prsht Rev.	NC			Project Number	N/A		
First Issue	N/A	Type	PURCHASED PARTS	Drawing Revision	G		
Previous Run	29602			Material	N/A		
Written By				Due Date	10/10/2007		
Checked & Approved By	<i>John 07.09.20</i>			Qty:	63		
Comment	Est: G 02.09.05	Added DSK 066	KJ/RF	Um:	Each		
	est H 07.07.06	rev G dwg	EC				

Additional Product

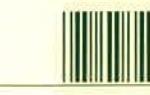
Job Number:



Seq. #:	Machine Or Operation:	Description :
1.0	PG	PURCHASING
Comment: PURCHASING Issue P/O: <i>4645</i> a) Extrude as per Dwg D2500 b) Material: 6061-T6 (QQ-A-200/8) c) Minimum yield tensile strength = 35 ksi d) Minimum ultimate tensile strength = 38 ksi e) Minimum elongation = 8% f) Order at 190" long g) Bon L Canada Inc. tool # 897105 h) To be packed per DSK 066 i) Pull test to ASTM standard B221 required. j) Material certification is required		

*c207/09/21**(80)*

2.0	D25001190P	Ext'n - 'I' Beam Tube 4"
Comment: Qty.: 1.0000 Each(s)/Unit Total : 80.0000 Each(s) EXTRUSION "I" BEAM TUBE 4"		



3.0	PACKAGING 1	PACKAGING RESOURCE #1
Comment: PACKAGING RESOURCE #1 Receive & Inspect For Transit Damage Ensure material certification is attached		

John 07/09/01 63

4.0	QC6	DIMENSIONAL CHECK
Comment: DIMENSIONAL CHECK Inspect dimensions per Dwg D2500 Check Pull test per Dwg D2500 for compliance page attached.		

8/21/02

W/O:

WORK ORDER CHANGES

DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA:  Date: 01/01/12
 QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

Date: Thursday, 9/20/2007 3:26:25 PM

User: Kim Johnston

Process Sheet

Customer: CU-DAR001 Dart Helicopters Services

Drawing Name: EXTRUSION "I" BEAM TUBE 4"

Job Number: 34729

Part Number: D25001190

Job Number:



Seq. #:

Machine Or Operation:

Description :

Check hardness with Webster tester

5.0 PACKAGING 1

PACKAGING RESOURCE #1



Comment: PACKAGING RESOURCE #1

Identify and Stock

Location: _____

2/10/11 sp 63x

6.0 QC21

FINAL INSPECTION/W/O RELEASE



Comment: FINAL INSPECTION/W/O RELEASE

(63) 02/10/11

Job Completion



U A.10.2

W/O:

WORK ORDER CHANGES

DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____
 QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

DART

DESIGN <i>[Signature]</i>	DRAWN BY <i>[Signature]</i>	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA		
CHECKED <i>[Signature]</i>	APPROVED <i>[Signature]</i>	DRAWING NO. D2500	REV. G	SHEET 1 OF 3
DATE 07.04.17		TITLE EXTRUSION	SCALE NTS	
A	96.03.19	NEW ISSUE		
B	96.03.24	CHANGE INTERNAL WEB		
C	96.04.26	ADD D2500-3 WEB		
D	96.10.07	ADD MATERIAL PROPERTIES		
E	96.10.24	CHANGE MATERIAL TEMPER		
F	97.09.29	CHANGE MAT. TO 6061-T6		
G	07.04.17	ADD NOTES 3,5,6		

RELEASED
07.06.28 *[Signature]*

1. MATERIAL: 6061-T6 (QQ-A-200/8)

MINIMUM TENSILE YIELD STRENGTH = 35 KSI
 MINIMUM ULTIMATE TENSILE STRENGTH = 38 KSI
 MINIMUM ELONGATION = 8%

A SAMPLE FROM EACH BATCH WILL BE PULL TESTED TO ASTM STANDARD B221 BY AN APPROVED TESTING FACILITY TO ENSURE THAT THE BATCH MEETS THE ABOVE MINIMUM MECHANICAL PROPERTIES

2. BREAK ALL SHARP CORNERS 0.010 MAX

3. ALL DIMENSIONS ARE IN INCHES

4. TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED.

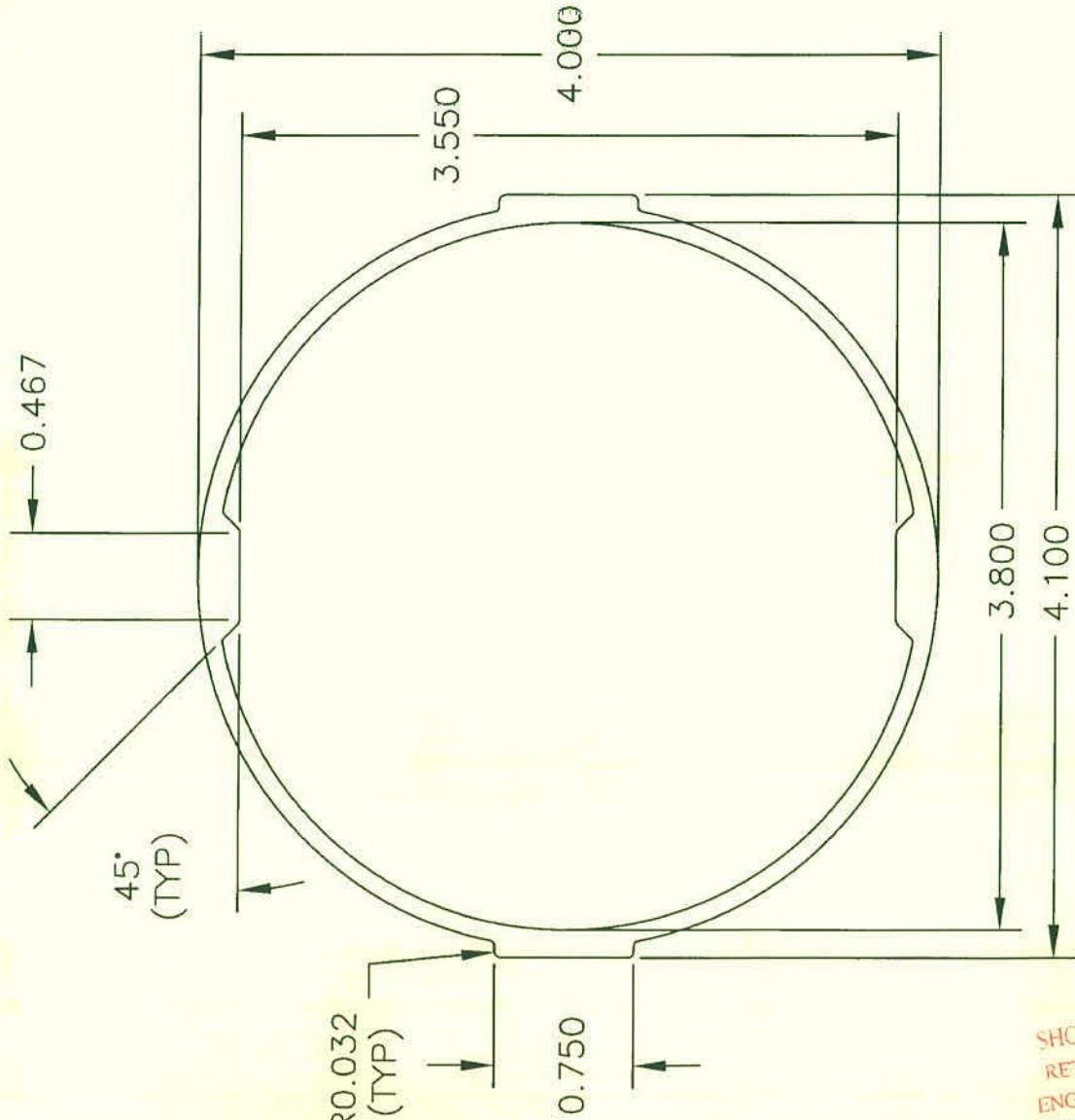
5. FOR D2500-1 PART NUMBER IS D2500-1-XXX WHERE XXX IS CUT LENGTH (EX. D2500-1-190 IS 190" LONG)
 D2500-1 EXTRUSION MANUFACTURED FROM:
 A) BON L DIE # 897015 -> PREFERRED
 B) CARADON MIDEAST DIE # PAH-28030
 C) CARADON MTL DIE # MH-18868

6. FOR D2500-3, PART NUMBER IS D2500-3-XXX WHERE XXX IS CUT LENGTH IN INCHES (EX. D2500-3-100 IS 100" LONG)
 D2500-3 EXTRUSION MANUFACTURED FROM:
 A) CARADON INDALEX DIE # MS-18867

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NO. 34729

DART

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DATE		SHEET 2 OF 3 TITLE EXTRUSION SCALE 1:1

RELEASED
07.06.28 - #

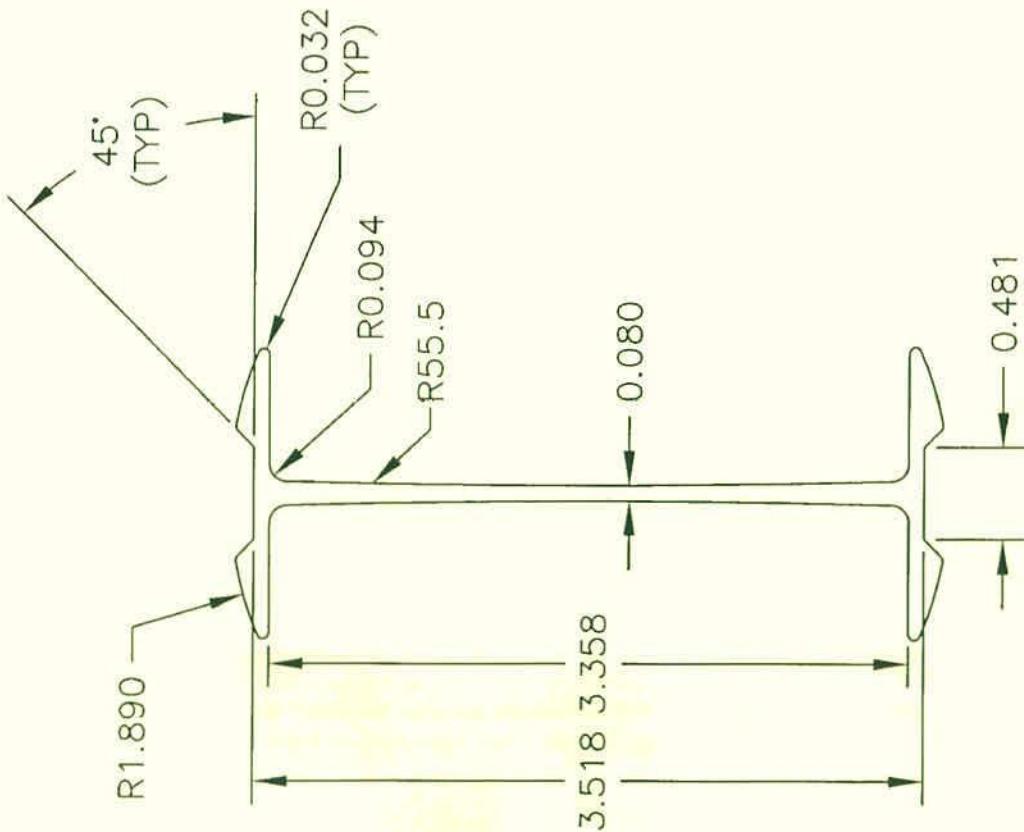
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DART

DESIGN	DRAWN BY	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA
CHECKED	APPROVED	DRAWING NO. D2500
		REV. G SHEET 3 OF 3
DATE 07.04.17		TITLE EXTRUSION SCALE 1:1

RELEASED
07.06.28**D2500-3**

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CERTIFICATE OF COMPLIANCE

BON L CANADA INC

1850 CLEMENTS ROAD
PICKERING, ON L1W 3R8

Cert Date	Cert No	Sales Order	Page
09/30/07	166849	87380	1
Cost PO	B/L No	Lot	Date
4645	00359333	87380010	9/30/07

Sold To	Ship To
DART AEROSPACE LTD. 1270 ABERDEEN ST. HAWKESBURY, ON K6A 1K7	DART AEROSPACE LTD. 1270 ABERDEEN ST. HAWKESBURY, ON K6A 1K7
<hr/>	
Item No	Part No
1.000	DAA-897105-2
190" Mill 6061 T6	
<hr/>	
Gross Weight	816 KGS
Net Qty	798 KG 63 PC 304 M 3 PKG
Specification	Spec Desc
AMS-QQ-A-200/8 & ASTM B221-00	
<hr/>	

Mechanical Tests:

Test No.	Tensile MPA / KSI	Yield MPA / KSI	%Elongation	Conductivity	Bend/Drift HREW
1	299.2	43.4	276.3 / 40.1	10.4	.0 92

Chemical Limits:

SI	FE	CU	MN	MG	CR	ZN	TI	OTHER
MIN:	.40	.00	.15	.00	.80	.04	.00	.00 EA: .05
MAX:	.80	.70	.40	.15	1.20	.35	.25	.15 TOT: .15

This will certify that the material described herein has been inspected and tested in accordance with Bon L Canada's standard sampling and testing procedures or in accordance with the requirements of any specifications forming a part of the material description to the extent indicated herein. Data of chemical composition for the material and test results from samples representative of the material are set forth above hereof or in any attachments hereto. This information shows that the material meets the applicable requirements. Inspection and test records are maintained on file. This certificate shall be deemed apart of and subject to the terms and conditions of warranty set forth on the reverse side of our order acknowledgement form. No other warranties are applicable.

Conchita Ko, QA Manager Signed for Bon L Canada

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